

Bridge Inspection Report

A5936
SH7 SB S-3 LM 1.34
over
UNION PACIFIC RR



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

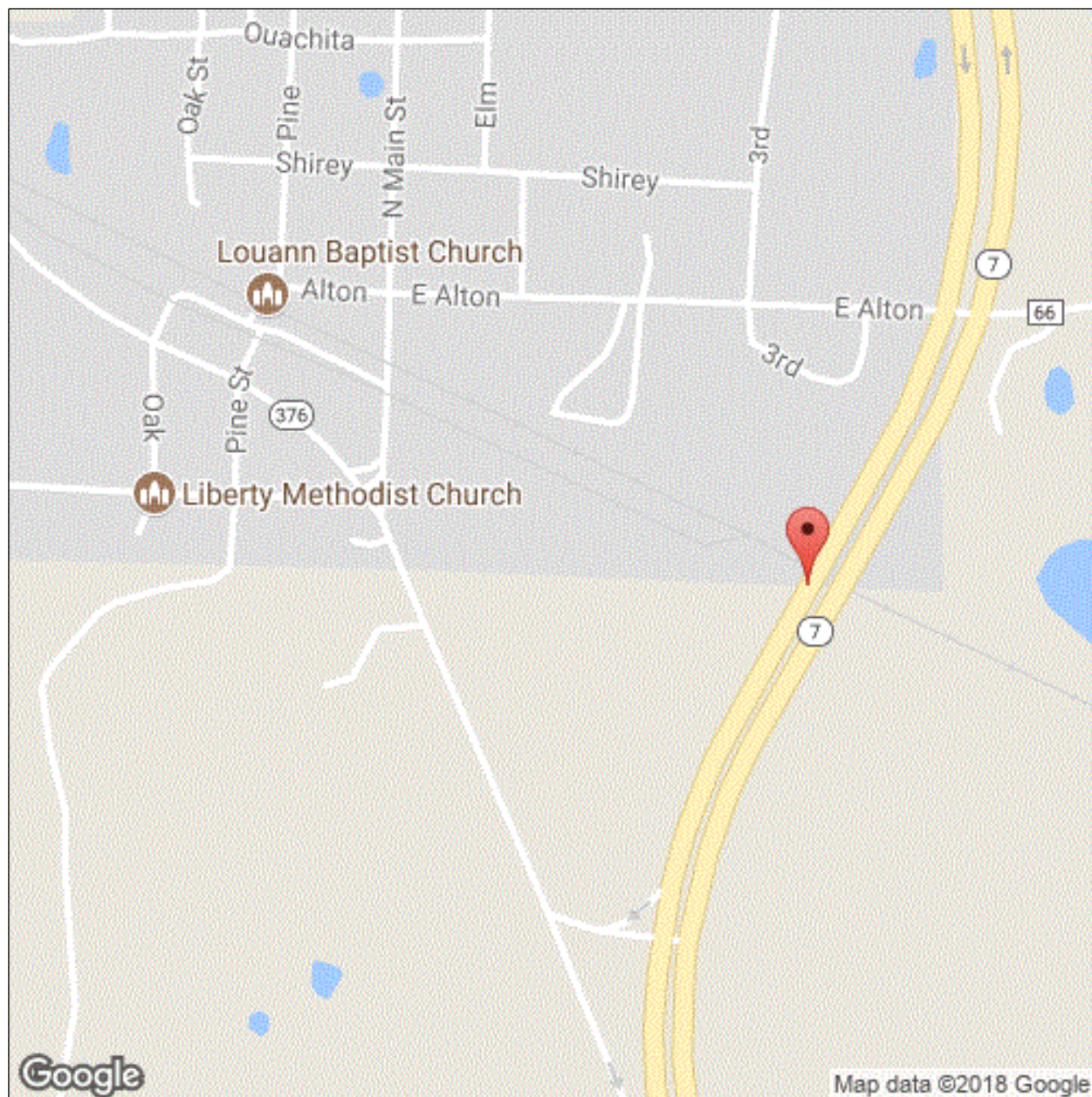
Inspection Date:

Structure Number: A5936

Facility Carried: SH7 SB S-3 LM 1.34

Bridge Inspection Report

Location Map



Latitude: 33.38875

Longitude: -92.78811

Inspector:

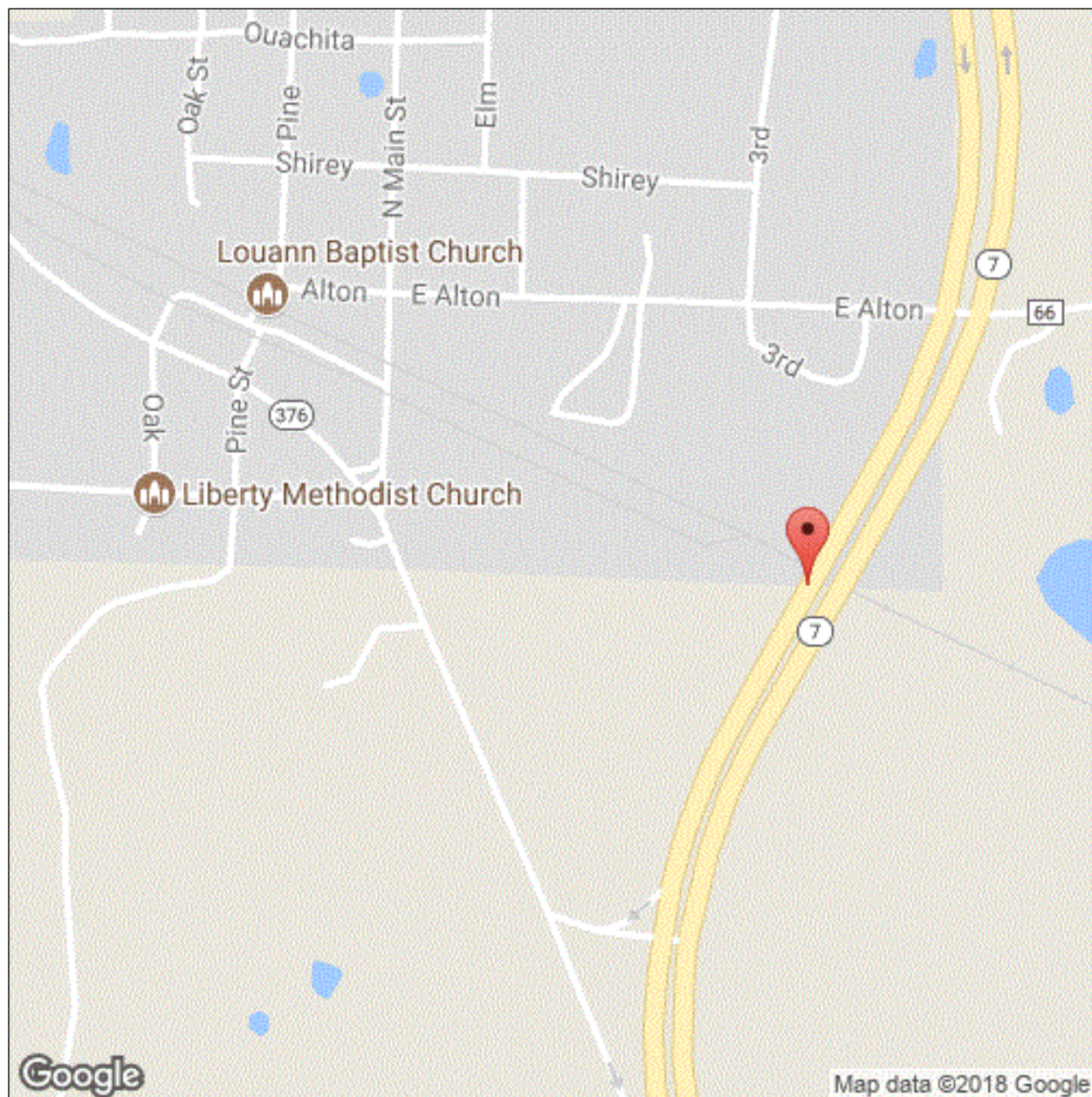
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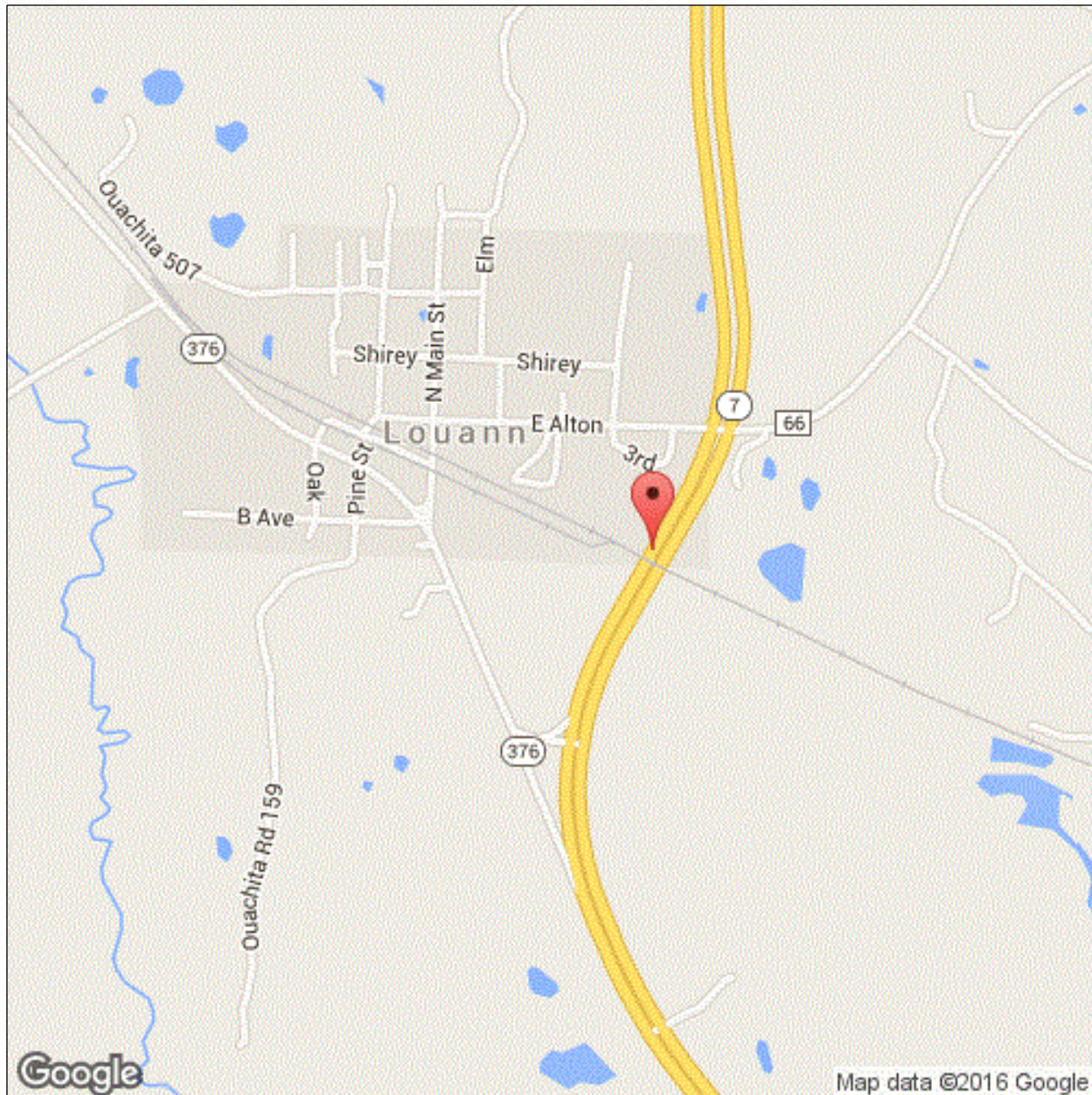
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Executive Summary

This structure is logged from South to North.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/12/2018
(8) STRUCTURE NUMBER	A5936	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 7 3	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 103	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	UNION PACIFIC RR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH7 SB S-3 LM 1.34		
(9) LOCATION	0.25 MI N JCT SH 376	CONDITION	
(11) MILEPOINT 1.340	(12) BASE HIGHWAY NETWORK 1	(58) DECK	7
(13A) LRS INVENTORY ROUTE	0000007030 (13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 8
(16) LATITUDE 33.38875	(17) LONGITUDE -92.78811	(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	5
		(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	8
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	7
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	N
		(72) APPROACH ROADWAY ALIGNMENT	8
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	1985 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	1
(42) TYPE OF SERVICE	ON 1 UNDER 2	36B) TRANSITIONS:	1
(28) LANES	ON 02 UNDER 00	36C) APPROACH GUARDRAIL:	1
(29) AVERAGE DAILY TRAFFIC	2500 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2018	(113) SCOUR CRITICAL BRIDGES	N
(109) AVERAGE DAILY TRUCK TRAFFIC	15	SUFFICIENCY RATING	100.0 STATUS 0
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	58.0 (49) STRUCTURE LENGTH (ft.)	(112) NBIS BRIDGE LENGTH	Y
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(52) DECK WIDTH, OUT-TO-OUT (ft.)	43.0	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(101) PARALLEL STRUCTURE DESIGNATION	L
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(102) DIRECTION OF TRAFFIC	1
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(103) TEMP STRUCTURE	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	41.7	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(110) DESIGNATED NATIONAL NETWORK	0
(54) VERTICAL UNDER CLEARANCE (ft.)	R 22.24	(20) TOLL	3
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	R 26.9	(21) MAINTENANCE RESPONSIBILITY	01
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(22) OWNER	01
PROPOSED IMPROVEMENTS		(37) HISTORICAL	4
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	NAVIGATION DATA	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(38) NAVIGATION CONTROL	N
(94) BRIDGE IMPROVEMENT COST (\$)	0	(111) PIER OR ABUTMENT PROTECTION	1
(95) ROADWAY IMPROVEMENT COST (\$)	0	(39) NAV VERT CLEARANCE (ft.)	0
(96) TOTAL PROJECT COST	0	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(114) FUTURE ADT	2800 (115) YEAR OF FUTURE ADT		
	2038		

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	6278	sq. ft.	5022	1256	0	0
Transverse deck cracks all spans.							
1130 - Cracking (RC and Other)		1256			1256		
107 - Steel Open Girder/Beam	1- Ben.	876	ft.	263	613	0	0
paint chalky with some rust freckle. 03/07/2018 JPR -- Paint is chalky and failing with some light rust with little on no section loss at this time.							
1000 - Corrosion		613			613		
515 - Steel Protective Coating		6132	sq. ft.	0	6132	0	0
3410 - Chalking (Steel Protective Coatings)		5519			5519		
3440 - Effectiveness (Steel Protective Coatings)		613			613		
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
215 - Reinforced Concrete Abutment	1- Ben.	86	ft.	86			
234 - Reinforced Concrete Pier Cap	1- Ben.	86	ft.	86			
302 - Compression Joint Seal	1- Ben.	86	ft.	0	43	43	0
Torn and loose. Water getting through joints. 03/07/2018 JPR -- Abutment 1 joint material is missing, thus allowing dirt, debris and road salts to get through to the cap, bearings and girder ends. Abutment 2 is worn and tattered and is leaking through the joint.							
2330 - Seal Damage		86			43	43	
311 - Movable Bearing	1- Ben.	12	each	6	3	3	0
Abutment 1, all bearings have some rust and pack rust to the masonry plates and the bottoms of the rocker bearings.							
1000 - Corrosion		6			3	3	
313 - Fixed Bearing	1- Ben.	12	each	12			
331 - Reinforced Concrete Bridge Railing	1- Ben.	292	ft.	292			

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Pictures

PHOTO 2

Description

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Sketches

Inspector:

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Maintenance Needs

Date Reported: 3/24/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Expansion Joint Seal is missing from rt. of C/L Lt., @ Abutment 1, over bearings 1 - 3, thus allowing dirt, debris, and road salts to reach the girder ends and bearings.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Abutment 1, joint material is hanging down on top of the cap and there is dirt and debris on the cap.

Stage: Monitor



PHOTO 2 Description Joint material missing abutment 1, from 2' past the outside white line to 1' past C/L, over bearings 1 - 3.

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Maintenance Needs

Date Reported: 3/24/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Abutment 1 bearings 1, 2, & 3 have pack rust to masonry plates, with bearing #3 being the worst.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bearings 1 - 3 at abutment 1, pack rust to masonry plates.

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Maintenance Needs

Date Reported: 03/08/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Paint system is chalky. 03/12/2018 JPR -- All girders, paint is chalky with some light rust to bottom & top flanges with little or no section loss. Abutment 1 bearings, 1 & 2 have light rust to masonry plates and rocker bearings. Bearings 3 - 6 have moderate to heavy pack rust to masonry plates and the rocker bearings have light to moderate rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bearings at abutment 1 pack rust

Stage: Monitor



PHOTO 2 Description All girders have paint is chalky and they have some light rust to bottom and top flanges.